CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/SN/W.No.04/CSR-05/345f/CEMENT/2017-18 Date: 26.05.2017

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. Shivakumar. N,** No.96, Gandhinagara, KHB Colony, Yelahaka, Bangalore
*** Name of Work**	:	Construction of CC road at Chikkabommasandra old Village in Ward No.04, Bangalore.
*** Reference**	:	BBMP/AEE/YSTSD/83/A/2017-18 Dated: 25.05.2017
*** Sample ID**	:	Cement - Sample 1
Sample Received on	:	25.05.2017
Period of Testing	:	25.05.2017 to 26.05.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	495 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/SN/W.No.04/CSR-05/345f/SAND-Gradation/2017-18 26.05.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Shivakumar. N,** No.96, Gandhinagara, KHB Colony, Yelahaka, Bangalore
* Name of Work	:	Construction of CC road at Chikkabommasandra old Village in Ward No.04, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/A/2017-18 Dated: 25.05.2017
* Sample ID	:	Fine Aggregates - Sample 1
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	25.05.2017
Date of Testing	:	26.05.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.20	90-100	90-100	90-100	95-100
2.36	71.60	60-95	75-100	85-100	95-100
1.18	46.30	30-70	55-90	75-100	90-100
600 Micron	19.60	15-34	35-59	60-79	80-100
300 Micron	6.80	5-20	8-30	12-40	15-50
150 Micron	1.80	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/SN/W.No.04/CSR-05/345f/AGG/GR/2017-18 26.05.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Shivakumar. N,** No.96, Gandhinagara, KHB Colony, Yelahaka, Bangalore
* Name of Work	:	Construction of CC road at Chikkabommasandra old Village in Ward No.04, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/A/2017-18 Dated: 25.05.2017
* Sample ID	:	Coarse Aggregates (40mm) - Sample 1
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	25.05.2017
Date of Testing	:	26.05.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.46	95-100	85-100
20	34.98	30-70	0-20
10	13.86	10-35	0-5
4.75	3.38	0-5	-

AEE

*Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/SN/W.No.04/Steel/2017-18 26.05.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Shivakumar. N,** No.96, Gandhinagara, KHB Colony, Yelahaka, Bangalore
* Name of work	:	Construction of CC road at Chikkabommasandra old Village in Ward No.04, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/A/2017-18 Dated: 25.05.2017
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	26.05.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	512	553	13.05	O.K	O.K

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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Job No.: CTCE/BBMP/SN/W.No.04/Steel/2017-18 26.05.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Shivakumar. N,** No.96, Gandhinagara, KHB Colony, Yelahaka, Bangalore
* Name of work	:	Construction of CC road at Chikkabommasandra old Village in Ward No.04, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/A/2017-18 Dated: 25.05.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	26.05.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	514	555	13.25	O.K	O.K

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Job No.: CTCE/BBMP/SN/W.No.04/Steel/2017-18 26.05.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Shivakumar. N,** No.96, Gandhinagara, KHB Colony, Yelahaka, Bangalore
* Name of work	:	Construction of CC road at Chikkabommasandra old Village in Ward No.04, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/A/2017-18 Dated: 25.05.2017
* Samples ID	:	16 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	26.05.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	515	556	13.45	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/SN/W.No.04/CSR-05/345f/Cube/2017-18 26.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Shivakumar. N,** No.96, Gandhinagara, KHB Colony, Yelahaka, Bangalore
* Name of the work	:	Construction of CC road at Chikkabommasandra old Village in Ward No.04, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/A/2017-18 Dated: 25.05.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	26.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.05.2017	26.06.2017	8.265	495.3	22.01
2	29.05.2017	26.06.2017	8.396	514.7	22.88
3	29.05.2017	26.06.2017	8.472	536.7	23.85

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Job No.: CTCE/BBMP/SN/W.No.04/CSR-05/345f/Cube/2017-18 26.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Shivakumar. N,** No.96, Gandhinagara, KHB Colony, Yelahaka, Bangalore
* Name of the work	:	Construction of CC road at Chikkabommasandra old Village in Ward No.04, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/A/2017-18 Dated: 25.05.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	26.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.05.2017	26.06.2017	8.133	500.8	22.26
2	29.05.2017	26.06.2017	8.264	517.3	22.99
3	29.05.2017	26.06.2017	8.394	534.2	23.74

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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Job No.: CTCE/BBMP/SN/W.No.04/CSR-05/345f/Cube/2017-18 28.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Shivakumar. N,** No.96, Gandhinagara, KHB Colony, Yelahaka, Bangalore
* Name of the work	:	Construction of CC road at Chikkabommasandra old Village in Ward No.04, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/A/2017-18 Dated: 25.05.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.05.2017	28.06.2017	8.147	487.2	21.65
2	31.05.2017	28.06.2017	8.268	493.2	21.92
3	31.05.2017	28.06.2017	8.364	508.6	22.60

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Job No.: CTCE/BBMP/SN/W.No.04/CSR-05/345f/Cube/2017-18

28.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Shivakumar. N,** No.96, Gandhinagara, KHB Colony, Yelahaka, Bangalore
* Name of the work	:	Construction of CC road at Chikkabommasandra old Village in Ward No.04, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/A/2017-18 Dated: 25.05.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.05.2017	28.06.2017	8.086	492.8	21.90
2	31.05.2017	28.06.2017	8.128	509.6	22.65
3	31.05.2017	28.06.2017	8.246	514.2	22.85

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Job No.: CTCE/BBMP/SN/W.No.04/CSR-05/345f/Cube/2017-18 06.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Shivakumar. N,** No.96, Gandhinagara, KHB Colony, Yelahaka, Bangalore
* Name of the work	:	Construction of CC road at Chikkabommasandra old Village in Ward No.04, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/A/2017-18 Dated: 25.05.2017
* Sample ID	:	Culvert Deck Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	06.07.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.06.2017	06.07.2017	8.149	500.8	22.26
2	08.06.2017	06.07.2017	8.234	516.7	22.96
3	08.06.2017	06.07.2017	8.364	523.4	23.26

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Job No.: CTCE/BBMP/SN/W.No.04/CSR-05/345f/Cube/2017-18

10.07.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Shivakumar. N,** No.96, Gandhinagara, KHB Colony, Yelahaka, Bangalore
* Name of the work	:	Construction of CC road at Chikkabommasandra old Village in Ward No.04, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/A/2017-18 Dated: 25.05.2017
* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	10.07.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2017	10.07.2017	8.238	502.5	22.33
2	12.06.2017	10.07.2017	8.364	530.6	23.58
3	12.06.2017	10.07.2017	8.462	516.8	22.97

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Job No.: CTCE/BBMP/SN/W.No.04/CSR-05/345f/Pre Slab/2017-18

15.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	Asst. Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	Mr. Shivakumar. N, No.96, Gandhinagara, KHB Colony, Yelahaka, Bangalore
* Name of work	:	Construction of CC road at Chikkabommasandra old Village in Ward No.04, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/83/A/2017-18 Dated: 25.05.2017
* Sample ID	:	Precast Slab
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	10.06.2017
Date of Testing	:	15.06.2017

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.398	2565.82	1.58	0.955	31.58	16.08	17.37	18.20	22.74
2	50.00	81.00	0.401	2521.33	1.62	0.959	34.21	17.42	18.82	18.04	22.56
3	50.00	82.00	0.412	2558.90	1.64	0.961	35.64	18.15	19.60	18.84	23.55

* Information is furnished by the Customer/Representative

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

AEE

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